

Title (en)
Turbine for a turbomachine

Title (de)
Lauftrad einer Turbomaschine

Title (fr)
Turbine d'une turbomachine

Publication
EP 2586976 A2 20130501 (EN)

Application
EP 12189828 A 20121024

Priority
US 201113284112 A 20111028

Abstract (en)
A turbomachine (10) is provided and includes first and second endwalls (20,30) disposed to define a pathway (40), each of the first and second endwalls (20,30) including a surface (21,31) facing the pathway (40) and at least first and second blades (50) extendible across the pathway (40) from at least one of the first and second endwalls (20,30), each of the first and second blades (50) having an airfoil shape (51) and being disposed such that a pressure side (513) of the first blade (501) faces a suction side (514) of the second blade (502). A portion of the surface (21,31) of at least one of the first and second endwalls (20,30) between the first and second blades (50) has at least a first hump (60) proximate to a leading edge (511) and the pressure side (513) of the first blade (501), and a second hump (70) disposed at 10-60% of a chord length of the first blade (501) and proximate to the pressure side (513) thereof.

IPC 8 full level
F01D 5/14 (2006.01)

CPC (source: EP US)
F01D 5/145 (2013.01 - EP US)

Cited by
EP3375977A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2586976 A2 20130501; EP 2586976 A3 20170802; EP 2586976 B1 20210526; CN 103089319 A 20130508; CN 103089319 B 20161207; US 2013108424 A1 20130502; US 8992179 B2 20150331

DOCDB simple family (application)
EP 12189828 A 20121024; CN 201210417457 A 20121026; US 201113284112 A 20111028